

BARG Newsletter June 2025



***Ballarat Amateur Radio Group Inc. #6953T
June 2025 Monthly Newsletter***

**Next General Meeting BARG inc
11:00am, Saturday 28th June 2025
At the Airport - All Welcome**



Contacting us
BARG@BARG.ORG.AU

We're on the web.

www.barg.org.au

https://twitter.com/vk3_barg

<https://www.facebook.com/groups/VK3BML/>



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Front Page Contributor Some characters from John Moyle 2014

Times and dates of nets as below

Club Nets: VHF NET: Every Tuesday Night at 8 pm on 146.750 MHz - VK3RBA

HF NET: Every Thursday Night at 8 pm on 3.608 MHz - VK3BML

6m NET: Every Tuesday Night at 8:30 pm on 53.650Mhz RX / 52.650Mhz TX - FM with a 91.5 tone - VK3RWU

LINKED REPEATERS: *The local VK3RBA-70cm repeater on Mt Buninyong is part of a network of linked repeaters covering North-Western Victoria.*

Access details for this repeater have recently changed.

For full details of this linked network and access details see <https://www.qrz.com/lookup/vk3rba>

You can listen to the system live <http://vk3rba.dyndns.org:441/>

This linked system may be accessed via IRLP node 9503



President's Report March 2025



Not a lot to write down this month. But here is a short list of things that are coming up.

The AGM will be held on the 30th of August. Nomination forms and more details should be available soon.

Member fees are now due. See the BARG website for details

George Fowler Auction will be on the 14th of September this year.

Any items for sale can be left at the August General Meeting.

Please do not leave items any earlier.

Cheers, 73s

Ben VK3NRD

BARG inc. OFFICE BEARERS

President	Ben Daniel VK3NRD	Ordinary Member	Tom George VK3DMK
Vice President	Colin Consiglio VK3NCC	Ordinary Member	Ian Fairweather VK3YFD
Secretary	Peter Westgarth VK3APW	Ordinary Member	Doug Ellery VK3DRE
Treasurer	Chris Huggins VK3QY	Ordinary Member	David Martin VK3KQT
Ordinary Member	Craig Cook VK3KG	Ordinary Member	Mal White VK3OAK
Ordinary Member	Paul Black VK3TXR		

The Next BARG General Meeting **Saturday 28th of June 2025** **11:00am**

June Meeting - Measuring VSWR and RF Power

Following Brian ZUS's excellent presentation on Scopes, last month, there will be a discussion on what can be used to measure RF power and maybe VSWR on a typical 100W HF transceiver.

I will also have available, a test fixture, to check Bird model 43-meter accuracy, not the slugs.

If you have a Bird 43, and would like to check the 30uA meter movement, bring it along.

Peter VK3APW

Jules' Workshop

The WIA Education Committee, [Learn about Wireless](#) has updated their Training Resources, [Become a Radio Amateur](#), on EMR Compliance Training.

This material refers to Schedule 1 of the Amateur Class Licence regulation.

Jules Workshop was also updated to reflect these changes at [Jules' Workshop Regulations](#).

Other minor errors were also amended in this release of Jules Workshop.

Hope you all find this material useful in your licence studies.

Also, check out the Wyndham Club's pending auction on 12 July [Auction](#)

Cheers, Jules VK3JFP

www.julesworkshop.net

Support our veterans.



The BARG Annual General Meeting And General Meeting

Saturday 30th of August 2025 11:00am

Members please note;

Membership Fee of \$40.00

Falls due on the 1st July 2025

**You must be a payed up member at the
time of the AGM to vote and be
nominated for club positions**

I spent \$80 on a belt that didn't fit... My wife said it was a huge waist.

My dog accidentally swallowed the hole bag of scrabble tiles.

We took him to the vet to get him checked out.

No word yet!

WARC Auction – 12 July 2025

WARC will be holding an auction of equipment on behalf of the widow of Geoff Robison, VK3AFL Silent Key.

There are 150 fantastic and useful lots to be sold.

There is no buyers commission on any of the lots offered. The price you bid is the price you pay.

Several high value items have a reserve. This value must be reached to complete the sale.



Bidding Increments		
Minimum opening bid \$5		
Between		Bid
\$5.00	\$20.00	\$1.00
\$20.00	\$50.00	\$2.00
\$50.00	\$100.00	\$5.00
\$100.00	\$500.00	\$10.00
\$500.00	\$1,000.00	\$20.00
\$1,000.00	UP	\$50.00



If you are unable to attend in person, no worries, you can register for external bidding by completing and returning the [external bidding form](#).

A person will make the bids on your behalf visually starting at a lower value than your maximum bid value. You may win the item with a lower bid. Once your maximum bid value is reached, no further bids will be placed on your behalf.

Preferred payment method will be by card on the day or EFT for external bidders.

A [catalogue of the lots](#) and a downloadable copy of the [catalogue, with pictures](#) is also available.

Please come along and support this event – a \$2 sausage sizzle will be available at 11 AM, and the auction will start at 12 noon.

GEORGE FOWLER AUCTION

The Ballarat Amateur Radio Group
Annual George Fowler Auction
will take place on
Sunday 14th September 2025.



Youth Net on the Link System

Contributor James VK3JFR
Net log for the month of June 2025

June 1st VK3JFR, VK4IKZ, VK3HOR, VK4MCW, VK4AHA

June 8th VK3JFR, VK3HOR, VK4MCW, VK4AHA, VK4NGA,
VK3WMF

June 15th VK3JFR, VK3HOR, VK1AAK, VK1AHA, VK3TZE,
VK3BKO, VK4MCW

June 22nd VK3JFR, VK4MCW, VK3HOR, VK4IKZ



ham-yota.com/contest ham-yota.com/contest ham-yota.com/contest



YOTA Contest 2024

- 1. Organizer:** IARU R1 Youth Working Group cooperating with MRASZ (Hungarian Amateur Radio Society).
- 2. Objective:** Increasing youngsters activity on the air, strengthening the reputation of the YOTA program and demonstration of support for youngsters across the world.
- 3. Date and time:**

2nd round: 20th July, 10:00 – 21:59 UTC

<https://www.ham-yota.com/news/>

I accidentally rubbed ketchup in my eyes. Now I have Heinzsight.

Scientists got together to study the effects of alcohol on a person's walk, and the result was staggering.

10:00AM EVERY THURSDAY MORNING

BARG COFFEE CLUB ALL WELCOME



**Food Seduction on Doveton
524 Doveton Street North, Ballarat North**

GGREC HAMFEST SALE 2025

GGREC HAMFEST SALE 2025

On **Saturday, July 5** the Gippsland Gate Radio & Electronics Club will be hosting a Hamfest sale . the venue is at the **Longwarry Community Hall** at 14 Kennedy St. Longwarry, approx 60km East of Dandenong, Vic. The venue is easy to find. It is just 3 km South of the freeway interchange, 150 metres South of the Longwarry train station and level crossing.



Doors open at 10:00 am for buyers. Entry fee is \$7 Doors open at 8:30 for stall holders.
No trading before 10:00 am please.

**We are pleased to announce that all 30 tables
available to stallholders have been booked!**

Direct enquiries to Ian Jackson VK3BUF via: hamfest@ggrec.org.au or call 5644 3118



Horus Launch – Horus 64 – 6th July 2025

AREG's High-Altitude Ballooning sub-group, Project Horus, is planning their next launch for **Sunday the 6th of July**, with a **planned launch time of 10 AM ACST**. If we have to scrub due to poor weather, the backup launch date will be the 13th of July.

This will be a re-flight of the Horus 63 payloads, which will include our cross-band repeater payload and Wenet imagery payload. **This time we hope to achieve a burst altitude of >35km, which will enable repeater coverage between Adelaide and Melbourne! We are looking for stations in Victoria and South-West NSW to listen out for balloon telemetry, and give us a call on the repeater!**

This launch is currently planned to be performed from the [Mt Barker High School Oval](#) with the launch team arriving on site from around 9:15 AM.



TRACKING LINKS

- **Flight Tracking via SondeHub-Amateur:** <https://amateur.sondehub.org/#!mt=Mapnik&mz=9&qm=12h&mc=-35.0677,139.23902>
- **Live Wenet Imagery:** <https://ssdv.habhub.org/>
- **Telemetry Dashboard:** *Link provided closer towards launch*
- **Details of the frequencies in use on this flight are:**
- **FM Crossband Repeater:** 145.075 MHz Input (91.5 Hz CTCSS), 438.975 MHz output.
- **Wenet Imagery** on 443.5 MHz. (*Now receivable using a web browser! See below!*)
- **Primary Horus Binary telemetry** on 434.200 MHz
- **Backup Horus Binary payload,** on 434.210 MHz

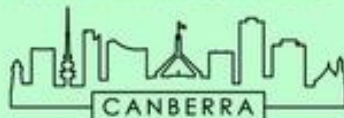
On this flight we encourage new listeners to try out our new web-browser-based decoding software for Horus Binary and Wenet – find out more about this further below!

During the flight, all the payloads can be tracked lived on the [SondeHub-Amateur tracker here!](#) <https://www.areg.org.au/archives/212235>



2025 ANNUAL VKFF NATIONAL GET TOGETHER

2025 VKFF NATIONAL GET TOGETHER



**FRIDAY 24TH, SATURDAY 25TH, SUNDAY 26TH
& MONDAY 27TH OCTOBER 2025**

AT CANBERRA, ACT.

THE EVENT WILL INCLUDE:

- FRIDAY EVENING DINNER – THE LIGHTHOUSE PUB, BELCONNEN
- GUEST SPEAKERS & DISPLAYS ON VKFF/WWFF DURING THE DAY ON SATURDAY AT THE EASTLAKE FOOTBALL CLUB, GRIFFITH.
- RAFFLE WITH VARIOUS PRIZES
- SATURDAY EVENING DINNER FUNCTION, INCLUDING A GUEST SPEAKER AT THE EASTLAKE FOOTBALL CLUB
- SUNDAY MORNING BBQ BREAKFAST AT BLACK MOUNTAIN BBQ AREA, ANTENNA BUILDING PROJECT, FOLLOWED BY NUMEROUS VKFF PARK ACTIVATIONS ON SUNDAY IN THE CANBERRA REGION
- SUNDAY EVENING DINNER – GUNGHALIN LAKES GOLF CLUB
- CANBERRA TOUR OPTIONS ON MONDAY

**FORMAL REGISTRATON, COST AND ADDITIONAL INFORMATION
CAN BE FOUND ON THE WWFF AUSTRALIA WEBSITE.**

<https://www.wwffaustralia.com/2025-national-get-together.html>



YOU MUST REGISTER TO ATTEND – WALK UPS WILL NOT BE ACCEPTED.

The Magic of the Mind's Eye in Ham Radio

One of the most enchanting parts of amateur radio isn't written in any manual or measured in signal reports. It's that beautiful moment when you're tuning the dial, headphones on, fingers on the VFO knob, and suddenly — a voice breaks through. It's clear, warm, maybe with a slight accent, or a crackle of static — and just like that, a stranger becomes a companion in the ether.

But here's the part we rarely talk about — the imaginary picture that begins to form in your mind.

Without ever seeing the other operator, your brain gets to work. Based on their tone, language, energy, maybe a laugh or a phrase — you start building a picture. Are they in a wooden shack surrounded by old gear and glowing tubes? Maybe in a high-rise with a sleek SDR rig? Could they be young and lively, or wise with decades of radio experience?

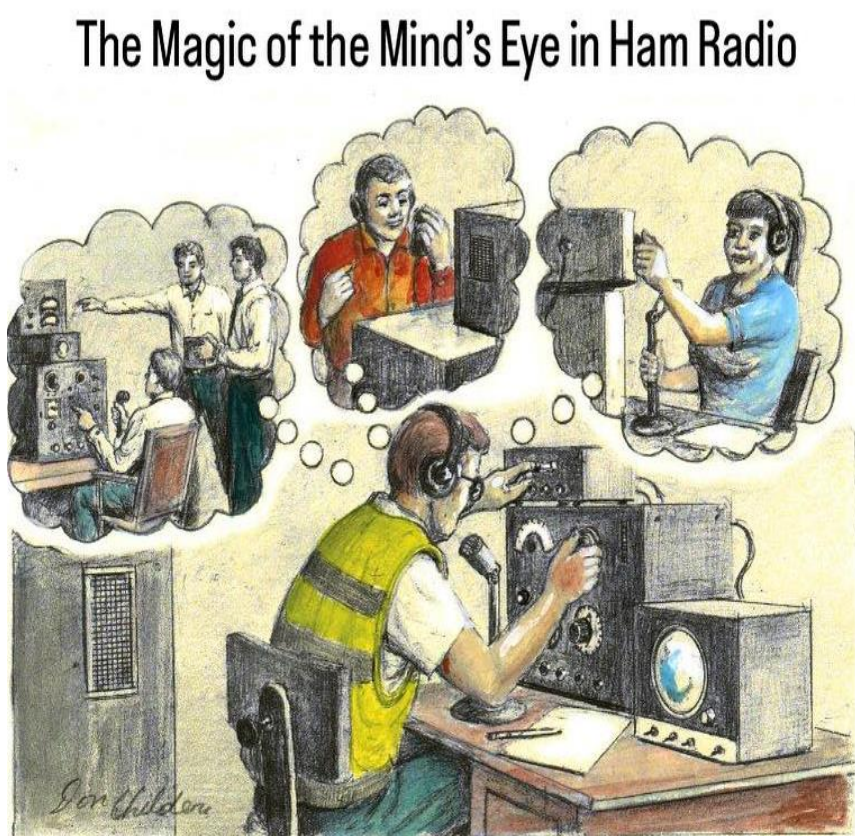
This mental projection — like in the image to the left — is a form of radio storytelling we all experience. The operator sitting at the transceiver is also a traveller, wandering through his imagination. He's picturing the person on the other end: what they look like, where they are, what kind of life they lead when they're not behind the mic.

And what makes this so special? It's human. It reminds us that beyond the antennas, voltmeters, and call signs, we're part of a timeless global conversation. Just voices in the noise, forming real connections out of thin air — literally.

In a world filled with video calls and instant photos, amateur radio preserves this rare kind of magic: connecting without seeing, and yet still feeling deeply connected. It's theatre of the mind, fuelled by curiosity and a shared love for the art of communication.

So the next time you're calling CQ and someone answers — take a moment to smile and let your mind wander. You're not just talking; you're building an invisible bridge between two people, crafted from imagination, waves, and wonder.

73 from PY6CJ - João Grisi <https://www.facebook.com/py6cj>



If you think that your microwave collecting data and the TV spying on you is bad enough..

The vacuum cleaner has been gathering dirt on you for years...

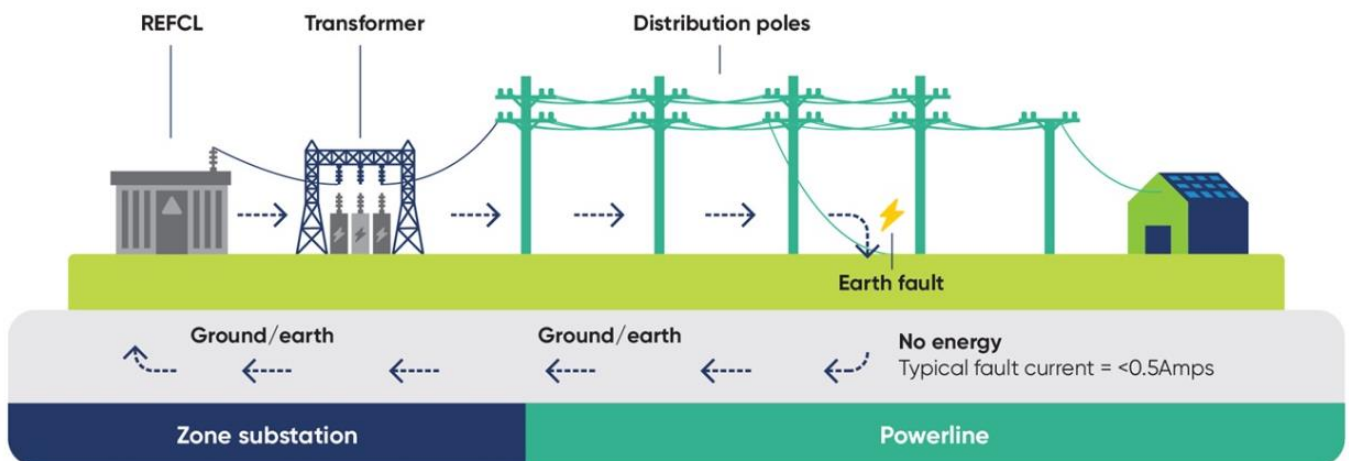
Rapid Earth Fault Current Limiters

Bushfire Mitigation

Have you heard of Rapid Earth Fault Current Limiters?

REFCLs are bushfire mitigation technology. In 2022-23 AusNet installed 22 of them across their network to help protect our communities from bushfires, including one in Benalla and one in Violet Town.

Want to know how REFCLs work?



REFCLs are a bushfire mitigation technology that acts like a giant safety switch in the electricity network. They have installed in Benalla and Violet Town to help protect communities and reduce bushfire risk.

When a REFCL detects a fault, it reduces power to that line within a tenth of a second.

At the same time, it increases the voltage on the remaining two lines so power can keep flowing to surrounding homes and businesses.

After a few minutes, the REFCL checks if the fault is still there. If the fault has cleared, power will be restored, and you often won't notice any power disruptions.

If the fault is still there (such as a tree falling across the powerline) the REFCL will cut power to all three lines, so our crews can safely assess and repair the line.



Over the last few years, our REFCLs have detected thousands of faults, reducing the risk of bushfires to our local communities.

For more information, visit: ausnet.com.au/REFCL

Reintroduction of Shortwave Radio in Papua New Guinea

PNG's national broadcaster moves to reintroduce shortwave radio for nationwide coverage by 2030

Papua New Guinea's National Broadcasting Corporation (NBC) is aiming to reintroduce shortwave radio to achieve the government's goal of 100 percent broadcast coverage by 2030.

NBC's executive director (engineering) Seloka Lewangu explained the importance of shortwave, while making a comparison with Frequency Modulation [FM], Shortwave, and Mediumwave transmission.

"FM is line of sight. If you see the tower, you receive the signal. If you don't see the tower, you don't receive the signal," he said.

"Medium Wave has a wider coverage compared to FM. Coverage for FM is more for cities and towns.

"When you talk about medium wave, you talk regional now.

"When you talk shortwave, you talk countrywide. That's why we are talking. If shortwave can do it for us, with all our rugged mountains and scattered islands."

This transition is timely and important for wider coverage, as it will enable broader and more reliable broadcast reach across the country's rugged terrain.

NBC also believes this shift will reduce dependency on costly hardware, making maintenance and upgrades easier while ensuring improved emergency communication and public awareness.



<https://www.nbc.com.pg/post/21190/nbc-to-re-introduce-shortwave-radio-by-2030>

CAPTION ME



Readers are invited to write a caption or two for the above photograph. Those captions suitable for publication will in the next newsletter. There is no prize, just notoriety.

This open to ALL members and non-members, operators, listeners or just interested readers.

If you have a submission, send it to tomvk3dmk@gmail.com with CAPTION in the email subject field.

To start you off.

“I’m sorry dear, but I thought you said this hobby was wireless!!!”

(If you have a radio related picture that would be good for this page, please email them in.)

Cheers. Tom VK3DMK

PS. A caption or title for the characters on the front page would also be welcome.

Paul VK3TXR YouTuber - Mount Clear Machinist

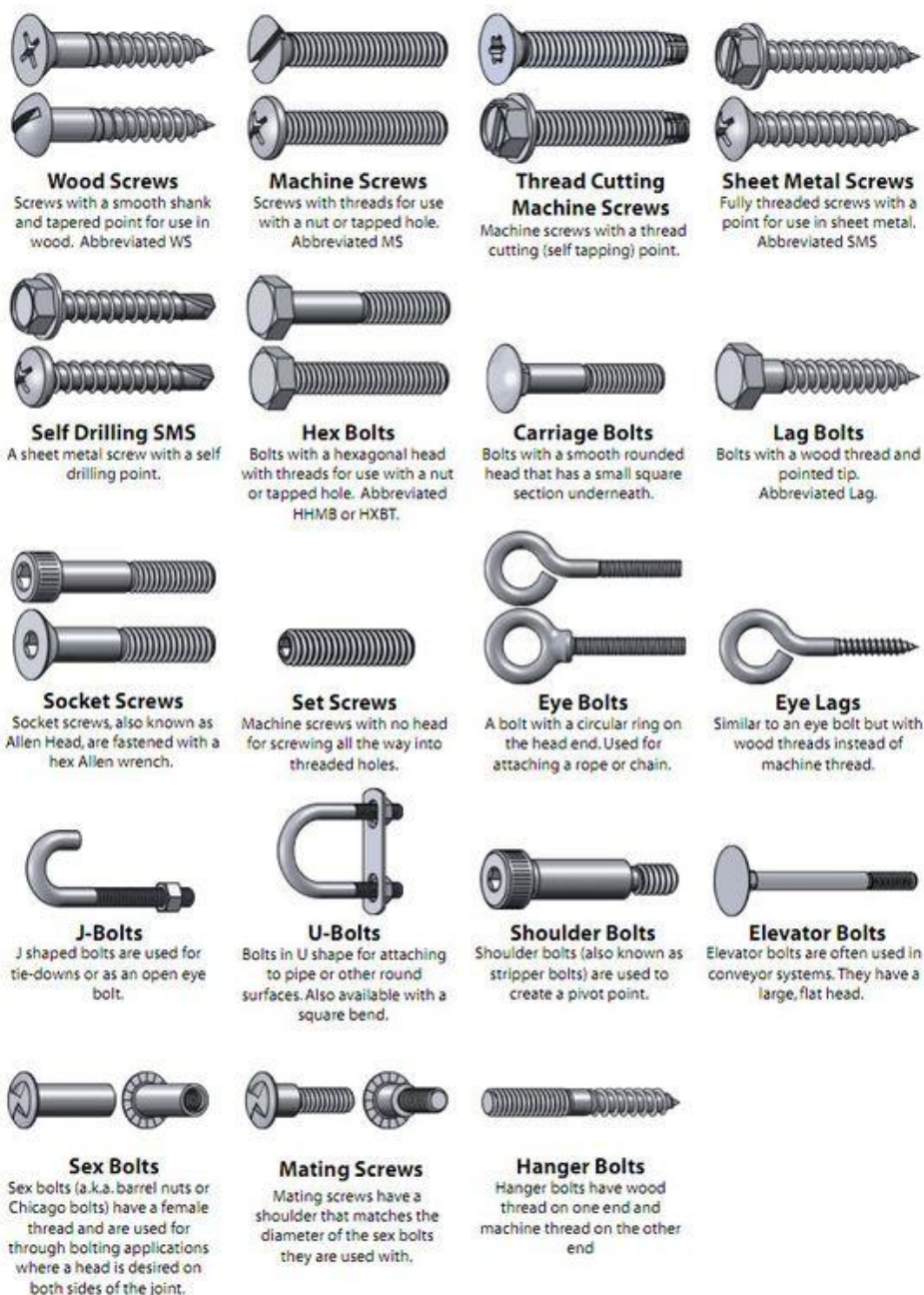
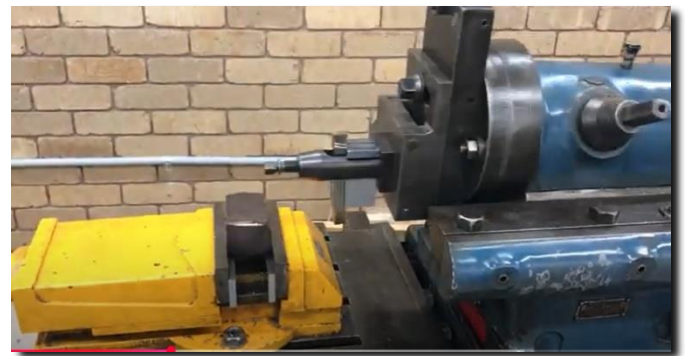
If you like watching people work and wrestle with old but fantastic metal working machines.

Paul VK3TXR has started his YouTube Channel, "Mount Clear Machinist."

He is currently refurbishing a Butler Crank Shaper.

Not sure what it is, then.

https://www.youtube.com/@Mount_Clear_Machinist



Play your part!!

Join today!

Community Service

Education & Examination

Representation

Bookshop

Publications

Technical Services



WIRELESS INSTITUTE OF AUSTRALIA ABN 36 004 820 745
Phone (03) 9729 0400
Email nationaloffice@wia.org.au

MEMBERSHIP APPLICATION

Send to **WIA Membership**
PO Box 2042
Bayswater VIC 3153

Mr/Mrs/Ms

Given Names

Family Name

Preferred Name

Street Address

City/Town State Postcode Country

Callsign Date of Birth dd/mm/yyyy

Occupation

Tick which period and fee.

Membership

☐ 1 year ☐ 5 year

Member ☐ \$95 ☐ \$451

Overseas Member ☐ \$105 ☐ \$500

Concession Member* ☐ \$80 ☐ \$380

Student** ☐ \$35

Additional Family Member*** ☐ \$36

* Please provide pension health benefits card number.

** Please provide evidence below of being a full-time student.

*** Please provide name and callsign of primary family member residing at the same address.

Provide concession details

.....

.....

Home Telephone

Work Telephone (optional)

Mobile Telephone (optional)

Email Address

I apply for membership of the Wireless Institute of Australia and agree to be bound by its constitution (available on the WIA Website).

I enclose ☐ Cash ☐ Cheque or ☐ Money Order for \$

or authorise payment of \$ by way of debit

to my ☐ MasterCard ☐ Visa Credit Card

CVC

Card No.

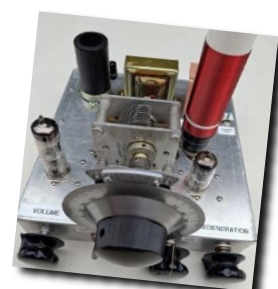
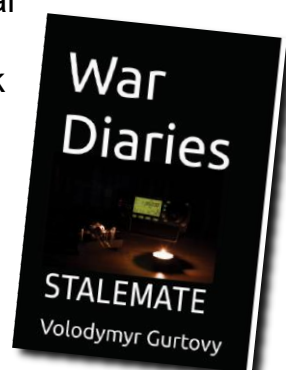
Expiry Date ____/____ Name on Card

Signature of Applicant Date ____/____

Magazine Reviews

Amateur Radio Review Volume 93 Number 3

- P4 Editorial. Roger VK2ZRH. Musings on poetry and future amateur radio functions.
- P6 Your WIA working for you. Roger VK2ZRH. 5MHz allocation, 51-52MHz and 2300-2302MHz preservation. Issues concerning the class license situation.
- P11 Auroras – a tour for tyros. Brett Carter and Elizabeth A MacDonald. The details of Auroras and our magnetosphere and Auroral Scatter Propagation by Roger VK2ZRH.
- P16 WSJT and democratisation of the airwaves in amateur radio. Justin VK7TW. An article about opening up the various digital modes now available to the amateur radio operator. FT*, FT4, JT65 and all the variants, highlighting the low power and minimal equipment required to listen to the world.
- P21 Book Review. War Diaries: Stalemate. Richard VK2SKY. A book by Volodymyr Gurtov about the war currently in the Ukraine. This is the sequel to his previous book reviewed in AR 2023 Issue 3. Documenting everyday life in Kyiv and his activity with amateur radio.
- P22 Annual Awards. 2024 authors awards – nine noteworthy recipients. Roger VK2ZRH. Lists the contributors who caught the AR Pubcom eye through the year in contributing to the national magazine.
- P24 Historic QSL Bureau. Fred VK3DAC, VK4FE. Features radio 3ZN from over 100 years ago and the “shorter” wavebands being experimented with at the time.
- P27 A state of the art receiver (in 1913..) Dale VK1DSH. A regenerative receiver constructed point to point style with two valves and plug in coils with some modern components to ease the parts list. 0.5-2.0MHZ, 2-2.8MHZ, and 8-30MHz coil winding details.
- P32 What happens when you hit the press-to-talk. George VK3EIP. A deep look, in a number of parts, into what those electrons do when you transmit RF. The mathematics of RF.
- P41 Receiving signals from Deep Space Network spacecraft with amateur equipment. Trevor VK4AFL. Branching from shortwave and the space race to EME and now DSN spacecraft Trevor explains the knowledge and hardware you need to accomplish this.
- P44 WIA News. ARISS and the WIA AGM, YOTA Contest, WAS on 630m band, IARU uniting regions, ACMA fees to drop, Telstra mobile to satellite system, HF World Championship.
- P47 A simple ‘armstrong’ rotatable dipole to play portable on the 10 and 12 metre bands. Chris VK5CF. Construction of the hardware and choke-balun with some illustrations to go along the way.
- P49 2024 DX Leaderboard



- P50 newcomers' Notebook. Jules VK3JPF. An Antenna Tuning Unit does not tune the antenna. Valuable and simple information about matching units, the types and the characteristics.
- P53 Below 25. Alec VK2MV. Various activities in the community including John Moyle and the WIA AGM. BARG member James VK3JFR gets a mention about his discord server for YOTA.
- P55 ALARA. Norma VK2YL. ALARA 50th Anniversary details, contest activities and community participation.
- P58 Spectrum Horizons. Lighting scatter and MAD operations.
- P60 WestNews. Will VK6UU. Long Delay Echoes and recent observations.
- P62 WIA DX Awards. Marc VK3OHM/VK3IP.
- P64 Over to you.



QST Review June 2025

- P9 Second Century. The Case for Remote. David A. Minster, NA2AA. Chief Executive Officer. Discussion on modern amateur radio techniques including remote station operation, and the many digital modes.
- P13 Member Spotlight. Tom Schuessler, N5HYP
- P20 Up Front. Unique QSL. Celebrate, The Radio Amateurs of Northern Vermont's, W1NVT, hard work paid off. Ham House.
- P30 Evaluate Portable QRP AC Power Supplies Before Use. Ripple, noise, and radio damage can be easily avoided with an oscilloscope test. An illustrated look at the pros and cons of switch mode power supplies when applied to amateur radio applications.
- P33 XRAI-1 External Receive Antenna Interface. Use this device to add a receive antenna to a rig with only one RF port, and to automatically switch between receive and transmit. Construction of a control box to allow the use of a separate receive antenna to your rig's main transmit antenna, this to minimise receive noise.
- P36 Product Review. Icom IC-R15 Communication Receiver. The Icom IC-R15 is a handheld receiver for reception of AM, FM, and wide FM signals between 76 and 500MHz. It offers a sophisticated dual-receiver design intended to appeal to enthusiasts who need versatile frequency coverage and user-friendly features.
- P39 Product Review. InnovAntennas 1712DUO HF Antenna. The LFA is an evolution of Yagi design that provides more consistent performance across a band and reduces side lobes that pick up off-axis noise, both from horizontal directions and from ground-level sources.
- P44 Product Review. Banggood SDR TX/RX Switch. Adding an external SDR receiver to an existing transceiver is becoming popular due to the low cost of these receivers and the additional features they can add. These features include spectrum and waterfall displays, which older transceivers don't have. And these SDRs often cover additional frequency ranges not



covered by many transceivers. You can easily and inexpensively connect an SDR to your existing transceiver with the Banggood SDR TX/RX Switch.

P48 Ask Dave. Quiet Bands and a Wet Antenna.

P50 Take Field Day on Vacation. Utilize this ham's arrangements to have a successful ARRL Field Day during any getaway.

P52 Maximize Your ARRL Field Day Performance. Expert advice from the W3AO team will help you get the most out of your station, regardless of the bands, modes, and antennas you may be using.

P55 Announcing the Winners of the 2024 QST Antenna Design Competition.

P57 2025 ARRL FIELD DAY GUIDE.

P69 Happenings. FCC Initiated Broad Inquiry on Rules to Delete or Amend.

P72 Amateur Radio World. Ununs for Austria. Österreichischer Versuchssenderverband, the Austrian International Amateur Radio Union (IARU) member society, reported that a regional association in Vienna held a successful hands-on workshop earlier this year. PR2L Women's Day Dxpedition. Liga de Amadores Brasileiros de Rádio Emissão reported that an all-female DXpedition team travelled to Ilha Comprida, a barrier island along the coast of the State of São Paulo, Brazil, to celebrate International Women's Day. Gibraltar Returns to WSPR The Gibraltar Amateur Radio Society weak signal propagation reporter (WSPR) beacon. And other worldwide news.

P74 Public Service. 2025 Tsunami Exercise: A Wave of Success.

Several ARES® and other groups led by the Los Angeles ARES organization ARES LAXNORTHEAST collaborated on planning and executing the 2025 Tsunami Exercise, a simulated emergency response scenario designed to test and enhance the capabilities of amateur radio operators in disaster situations. The exercise was conducted March 22 – 30, with all licensed amateurs invited to participate.

P76 2024 ARRL November Sweepstakes — Phone. A report on last year's ARRL November Sweepstakes phone weekend was held November 16 – 18, 2024.

P80 2024 ARRL 160-Meter Contest Results Last year's contest was held December 6 – 8, 2024.

P82 The 2025 IARU HF World Championship 1200 UTC Saturday, July 12 – 1159 UTC Sunday, July 13 2025. The objective of this contest is to support amateur self-training in radiocommunications, including improving operating skills, conducting technical investigations, and communicating with other amateurs around the world (especially IARU member-society headquarters stations) using the 160-, 80-, 40-, 20-, 15-, and 10-meter bands.

P84 Club Station. Riding the Rails for a Special Event. Ron Evans, K5XK, and Don Banta, K5DB, describe how the Bella Vista Radio Club (BVRC) of northwest Arkansas took a unique approach, setting up a mobile special event operation on a train.

P86 Ham Media Playlist. Jeff Geerling, Geerling Engineering, and Level 2 Jeff. About an amateur radio operator and YouTuber.

P88 How's DX? Revisiting Wake Island and DX News from the Board. DX News from Around the World



- P90 The World Above 50 MHz. March 6-Meter Action.
P98 Classic Radio. One-of-a-Kind Rigs. A look at Gonset range of radios.

Silicon Chip Review June 2025

- P2 Editorial Viewpoint. Nicholas Vinen. PCB production and design.
P18 The 2025 Avalon International Airshow. David VK3DSM. A look at all on display at the airshow, drones, Lunar rover Roo-ver, Hypersonics, Land speed record attempt vehicle, Honeywell Aerospace, space programs among other local products.
P35 Hot Water System Solar Diverter. Part1. Ray Berkelmans and John Clark. A solar energy logging system to divert your excess solar power generation to hot water storage. An ESP8266 with Wi-Fi connectivity is the thinking heart of the operation. Monitoring your power system, it provides a method to store your excess energy, rather than sell it back to the utilities.
P42 ALTIUM Designer 25. Tim Blythman. A comprehensive look at the latest from Altium in the electronic design automation field.
P46 SSB Shortwave Receiver. Part 1. Charles VK3BAR. A well designed analog shortwave radio with history and the various methods of acquiring stable receiver operation. Using an Arduino Nano and Si5351 as the frequency oscillator, the receiver includes squelch, RF gain, fast-slow AGC, crystal filter and a built in antenna matcher.
P58 Douk ST-01 PRO Hybrid Valve Amplifier. Review Allan Linton-Smith. A hybrid amplifier for valve enthusiasts, it can use a variety of valve types depending on the owners preferences.
P62 433MHZ Digital Receiver Module. Tim Blythman. A unit to go with the previously described LIPD 433MHz transmitter. Able to be interfaced with serial port of microcontroller or PC, working on 3V3 or 5V supplies.
P70 Precision Electronics. Part 8. Andrew Levide. Voltage References. Discusses their accuracy, types and modern requirements including thermal stability.
P74 EASY TO BUILD Outdoor Subwoofer. Julian Edgar. Using a Bunnings cement stool and some enclosure work, this produces a piece of outdoor furniture with some oomph.
P86 Circuit Notebook. Detecting smokers using MaixCam board, Non-contact diagnostic tool detects electromagnetic fields, 3D print case for Advanced SMD Test Tweezers.
P88 Serviceman's Log. Mystery Amplifier, remote control, HP Sig Gen repair, and a night light repair.
P94 Vintage Radio. Fred Lever. Building a 1970's Little General. Point to point construction of an old superhet valve radio from 1946, with 1970 parts.





Ballarat Amateur Radio Group Inc
Registration Number A0006953T
ABN 44 247 200 143
Application for Club Membership

This completed document should be emailed to the Secretary at BARG@BARG.ORG.AU, or brought along to a face to face meeting.

Surname: _____ Given Names: _____

Callsign: _____

Are you a financial member of WIA?: Yes No

Partner's Name: _____

Residential Address: _____

Postcode: _____

PostalAddress: _____
(If different to above) Postcode: _____

Telephone;
(Work) _____ (Home) _____ (Mobile) _____

EmailAddress _____

Unless otherwise requested, Newsletters and Club information will be sent to your email address. If the Club decides to publish a Club Directory, are you willing to have the above information included? Please indicate: **Yes No**

By applying for membership I indicate my support of the purposes of the Association and agree to comply with the Association rules in effect.

Applicant's Signature: _____ Date: _____

Proposed By: _____ Callsign: _____ Date: _____

Seconded By: _____ Callsign: _____ Date: _____

--ooOoo--

Presented to Committee: _____ Decision: Accept / Reject

Fee Paid: \$ _____ Date: _____ Receipt No(if applicable:) _____

Entered into Membership Register: _____ Secretary: _____